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Nano-sized Particle Size Standards

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The smallest size of our current particle size standards posses a diameter of 1.0 µm. But now we are proud being able to present our first nano-sized particle size standards manufactured and characterized in our laboratory. The following sizes can be supplied ex stock on June, 22nd:

180nm, 242nm, 301nm, 388nm, 503nm, 725nm

These particle standards do show the following properties:

++ **Monodisperse particle size distribution**
typical CVs (relative standard deviations): < 3,5%

++ **Bottle size: 20 ml**
this is 1/3 more volume than comparable standards of all competitors have

++ **Solids content: 2,0%**
this is twice as much as comparable standards of most of the other manufacturer have

++ **Vial type: dropper-tipped-bottle**
1. *this allows economical dosage of the calibrant*
2. *contamination of the reference material by accident using a pipette will be prevented*

++ **Characterisation**
had been performed with an analytical disc centrifuge (DC20000, CPS Inc.). This is the method with the highest resolution of all available particle size determination techniques at present (size resolution: <5%)!

++ **Certificate**
will show all important particle data as well as the measured particle size distributions (differential and cumulative size distribution)

++ **Composition**
1. *the suspensions contain a tailor-made combination of surfactants to eliminate aggregates. Even after months without any use they can be re-dispered without aggregates!*
2. *Preservatives successfully prevent groth of bacteria. Therefore these particle products can be stored at room temperature!*